

Table S3 List of families with the number of species distribution maps used in this study.

<i>Kingdom</i>	<i>Group</i>	<i>Family</i>	<i>Number of Species</i>
Plantae	Mangroves	Acanthaceae	11
Plantae	Mangroves	Arecaceae	2
Plantae	Mangroves	Bignoniaceae	2
Plantae	Mangroves	Combretaceae	4
Plantae	Mangroves	Ebenaceae	1
Plantae	Mangroves	Euphorbiaceae	2
Plantae	Mangroves	Fabaceae	2
Plantae	Mangroves	Lythraceae	7
Plantae	Mangroves	Malvaceae	7
Plantae	Mangroves	Meliaceae	3
Plantae	Mangroves	Myrsinaceae	2
Plantae	Mangroves	Myrtaceae	1
Plantae	Mangroves	Plumbaginaceae	2
Plantae	Mangroves	Pteridaceae	3
Plantae	Mangroves	Rhizophoraceae	18
Plantae	Mangroves	Rubiaceae	1
Plantae	Mangroves	Tetrameristaceae	1
Plantae	Seagrasses	Cymodoceaceae	13
Plantae	Seagrasses	Hydrocharitaceae	19
Plantae	Seagrasses	Posidoniaceae	4
Plantae	Seagrasses	Ruppiaceae	3
Plantae	Seagrasses	Zannichelliaceae	1
Plantae	Seagrasses	Zosteraceae	10
Animalia	Corals	Acroporidae	269
Animalia	Corals	Agariciidae	45
Animalia	Corals	Astrocoeniidae	13
Animalia	Corals	Caryophylliidae	3
Animalia	Corals	Dendrophylliidae	14
Animalia	Corals	Euphyllidae	16
Animalia	Corals	Faviidae	128
Animalia	Corals	Fungiidae	46
Animalia	Corals	Helioporidae	1
Animalia	Corals	Meandrinidae	9
Animalia	Corals	Merulinidae	12
Animalia	Corals	Milleporidae	13
Animalia	Corals	Mussidae	49
Animalia	Corals	Oculinidae	11
Animalia	Corals	Pectinidae	29
Animalia	Corals	Pocilloporidae	31
Animalia	Corals	Poritidae	99
Animalia	Corals	Siderastreidae	30
Animalia	Corals	Trachyphylliidae	1
Animalia	Corals	Tubiporidae	1
Animalia	Molluscs	Actinocyclusidae	2
Animalia	Molluscs	Bursidae	20
Animalia	Molluscs	Callochitonidae	15
Animalia	Molluscs	Cassidae	21

Animalia	Molluscs	Cerithiidae	8
Animalia	Molluscs	Chaetopleuridae	1
Animalia	Molluscs	Condylocardiidae	12
Animalia	Molluscs	Cypraeidae	187
Animalia	Molluscs	Haliotidae	46
Animalia	Molluscs	Harpidae	14
Animalia	Molluscs	Hemiarthridae	3
Animalia	Molluscs	Ischnochitonidae	39
Animalia	Molluscs	Leptochitonidae	19
Animalia	Molluscs	Littorinidae	46
Animalia	Molluscs	Mitridae	180
Animalia	Molluscs	Muricidae	9
Animalia	Molluscs	Olividae	114
Animalia	Molluscs	Patellidae	40
Animalia	Molluscs	Personidae	15
Animalia	Molluscs	Phasianellidae	2
Animalia	Molluscs	Pinnidae	7
Animalia	Molluscs	Ranellidae	48
Animalia	Molluscs	Strombidae	50
Animalia	Molluscs	Tonicellidae	14
Animalia	Molluscs	Tridacnidae	6
Animalia	Molluscs	Triviidae	18
Animalia	Molluscs	Trochidae	6
Animalia	Molluscs	Vasidae	13
Animalia	Crustaceans	Diogenidae	19
Animalia	Crustaceans	Dynomenidae	10
Animalia	Crustaceans	Eurysquillidae	5
Animalia	Crustaceans	Gonodactylidae	20
Animalia	Crustaceans	Harpiosquillidae	5
Animalia	Crustaceans	Heterosquillidae	1
Animalia	Crustaceans	Homolidae	44
Animalia	Crustaceans	Homolodromiidae	10
Animalia	Crustaceans	Leucosiidae	26
Animalia	Crustaceans	Lysiosquillidae	3
Animalia	Crustaceans	Nannosquillidae	3
Animalia	Crustaceans	Odontodactylidae	2
Animalia	Crustaceans	Portunidae	35
Animalia	Crustaceans	Protosquillidae	6
Animalia	Crustaceans	Pseudosquillidae	2
Animalia	Crustaceans	Rhynchocinetidae	6
Animalia	Crustaceans	Squillidae	31
Animalia	Crustaceans	Takuidae	1
Animalia	Crustaceans	Trapeziidae	28
Animalia	Chimaeras	Callorhynchidae	2
Animalia	Chimaeras	Chimaeridae	15
Animalia	Chimaeras	Rhinochimaeridae	5
Animalia	Sharks	Alopiidae	3
Animalia	Sharks	Brachaeluridae	2
Animalia	Sharks	Carcharhinidae	51

Animalia	Sharks	Centrophoridae	15
Animalia	Sharks	Cetorhinidae	1
Animalia	Sharks	Chlamydoselachidae	1
Animalia	Sharks	Dalatiidae	9
Animalia	Sharks	Echinorhinidae	2
Animalia	Sharks	Etmopteridae	35
Animalia	Sharks	Ginglymostomatidae	3
Animalia	Sharks	Hemigaleidae	7
Animalia	Sharks	Hemiscylliidae	12
Animalia	Sharks	Heterodontidae	9
Animalia	Sharks	Hexanchidae	4
Animalia	Sharks	Lamnidae	5
Animalia	Sharks	Megachasmidae	1
Animalia	Sharks	Mitsukurinidae	1
Animalia	Sharks	Odontaspidae	3
Animalia	Sharks	Orectolobidae	10
Animalia	Sharks	Oxynotidae	1
Animalia	Sharks	Parascylliidae	5
Animalia	Sharks	Proscylliidae	5
Animalia	Sharks	Pseudocarchariidae	1
Animalia	Sharks	Pseudotriakidae	16
Animalia	Sharks	Rhincodontidae	1
Animalia	Sharks	Scyliorhinidae	107
Animalia	Sharks	Somniosidae	9
Animalia	Sharks	Sphyrnidae	8
Animalia	Sharks	Squalidae	23
Animalia	Sharks	Squatinae	13
Animalia	Sharks	Stegostomatidae	2
Animalia	Sharks	Triakidae	37
Animalia	Batoid Fishes	Anacanthobatidae	23
Animalia	Batoid Fishes	Arhynchobatidae	14
Animalia	Batoid Fishes	Dasyatidae	55
Animalia	Batoid Fishes	Gymnuridae	9
Animalia	Batoid Fishes	Hexatrygonidae	1
Animalia	Batoid Fishes	Hypnidae	1
Animalia	Batoid Fishes	Mobulidae	8
Animalia	Batoid Fishes	Myliobatidae	17
Animalia	Batoid Fishes	Narcinidae	24
Animalia	Batoid Fishes	Narkidae	9
Animalia	Batoid Fishes	Platyrrhinidae	3
Animalia	Batoid Fishes	Plesiobatidae	1
Animalia	Batoid Fishes	Pristidae	6
Animalia	Batoid Fishes	Pristiophoridae	6
Animalia	Batoid Fishes	Rajidae	62
Animalia	Batoid Fishes	Rhinidae	1
Animalia	Batoid Fishes	Rhinobatidae	37
Animalia	Batoid Fishes	Rhinopteridae	5
Animalia	Batoid Fishes	Rhynchobatidae	3
Animalia	Batoid Fishes	Torpedinidae	13

Animalia	Batoid Fishes	Urolophidae	20
Animalia	Batoid Fishes	Urotrygonidae	13
Animalia	Bony Fishes	Acanthuridae	75
Animalia	Bony Fishes	Achiridae	8
Animalia	Bony Fishes	Acropomatidae	16
Animalia	Bony Fishes	Albulidae	11
Animalia	Bony Fishes	Amarsipidae	1
Animalia	Bony Fishes	Ambassidae	16
Animalia	Bony Fishes	Ammodytidae	9
Animalia	Bony Fishes	Anablepidae	2
Animalia	Bony Fishes	Anguillidae	10
Animalia	Bony Fishes	Anomalopidae	4
Animalia	Bony Fishes	Antennariidae	33
Animalia	Bony Fishes	Apistidae	1
Animalia	Bony Fishes	Aploactinidae	37
Animalia	Bony Fishes	Apogonidae	249
Animalia	Bony Fishes	Argentinidae	2
Animalia	Bony Fishes	Ariidae	73
Animalia	Bony Fishes	Ariommatidae	2
Animalia	Bony Fishes	Arripidae	4
Animalia	Bony Fishes	Atherinidae	32
Animalia	Bony Fishes	Atherinopsidae	17
Animalia	Bony Fishes	Aulopidae	1
Animalia	Bony Fishes	Aulostomidae	1
Animalia	Bony Fishes	Balistidae	31
Animalia	Bony Fishes	Batrachoididae	30
Animalia	Bony Fishes	Belonidae	25
Animalia	Bony Fishes	Bembridae	3
Animalia	Bony Fishes	Berycidae	7
Animalia	Bony Fishes	Blenniidae	299
Animalia	Bony Fishes	Bothidae	113
Animalia	Bony Fishes	Brachionochthyidae	1
Animalia	Bony Fishes	Bramidae	11
Animalia	Bony Fishes	Branchiostegidae	12
Animalia	Bony Fishes	Bregmacerotidae	9
Animalia	Bony Fishes	Bythitidae	89
Animalia	Bony Fishes	Caesionidae	20
Animalia	Bony Fishes	Callanathiidae	7
Animalia	Bony Fishes	Callionymidae	139
Animalia	Bony Fishes	Caproidae	5
Animalia	Bony Fishes	Caracanthidae	4
Animalia	Bony Fishes	Carangidae	102
Animalia	Bony Fishes	Carapidae	22
Animalia	Bony Fishes	Centracanthidae	2
Animalia	Bony Fishes	Centriscidae	8
Animalia	Bony Fishes	Centrogeniidae	2
Animalia	Bony Fishes	Centrolophidae	6
Animalia	Bony Fishes	Centropomidae	7
Animalia	Bony Fishes	Cepolidae	4

Animalia	Bony Fishes	Chaenopsidae	32
Animalia	Bony Fishes	Chaetodontidae	112
Animalia	Bony Fishes	Chanidae	1
Animalia	Bony Fishes	Cheilodactylidae	17
Animalia	Bony Fishes	Chirocentridae	2
Animalia	Bony Fishes	Chlopsidae	10
Animalia	Bony Fishes	Cichlidae	1
Animalia	Bony Fishes	Cirrhitidae	29
Animalia	Bony Fishes	Citharidae	4
Animalia	Bony Fishes	Clinidae	3
Animalia	Bony Fishes	Clupeidae	86
Animalia	Bony Fishes	Congridae	48
Animalia	Bony Fishes	Coryphaenidae	2
Animalia	Bony Fishes	Creediidae	10
Animalia	Bony Fishes	Cynoglossidae	78
Animalia	Bony Fishes	Cyttidae	1
Animalia	Bony Fishes	Dactylopteridae	6
Animalia	Bony Fishes	Dactyloscopidae	23
Animalia	Bony Fishes	Dentatherinidae	1
Animalia	Bony Fishes	Dinopercidae	1
Animalia	Bony Fishes	Diodontidae	11
Animalia	Bony Fishes	Drepanidae	2
Animalia	Bony Fishes	Echeneidae	7
Animalia	Bony Fishes	Eleotridae	41
Animalia	Bony Fishes	Elopidae	2
Animalia	Bony Fishes	Embiotocidae	1
Animalia	Bony Fishes	Engraulidae	92
Animalia	Bony Fishes	Enoplosidae	1
Animalia	Bony Fishes	Ephippidae	12
Animalia	Bony Fishes	Epigonidae	1
Animalia	Bony Fishes	Exocoetidae	51
Animalia	Bony Fishes	Fistulariidae	3
Animalia	Bony Fishes	Gempylidae	4
Animalia	Bony Fishes	Gerreidae	34
Animalia	Bony Fishes	Girellidae	2
Animalia	Bony Fishes	Glaucosomatidae	4
Animalia	Bony Fishes	Gobiesocidae	62
Animalia	Bony Fishes	Gobiidae	848
Animalia	Bony Fishes	Gonorynchidae	5
Animalia	Bony Fishes	Haemulidae	97
Animalia	Bony Fishes	Hemiramphidae	49
Animalia	Bony Fishes	Heterenchelyidae	1
Animalia	Bony Fishes	Holocentridae	67
Animalia	Bony Fishes	Hoplichthyidae	7
Animalia	Bony Fishes	Isonidae	3
Animalia	Bony Fishes	Istiophoridae	5
Animalia	Bony Fishes	Kraemeriidae	8
Animalia	Bony Fishes	Kuhliidae	10
Animalia	Bony Fishes	Kurtidae	2

Animalia	Bony Fishes	Kyphosidae	38
Animalia	Bony Fishes	Labridae	471
Animalia	Bony Fishes	Labrisomidae	42
Animalia	Bony Fishes	Lactariidae	1
Animalia	Bony Fishes	Lampridae	2
Animalia	Bony Fishes	Latidae	1
Animalia	Bony Fishes	Latimeriidae	1
Animalia	Bony Fishes	Leiognathidae	43
Animalia	Bony Fishes	Lepisosteidae	1
Animalia	Bony Fishes	Leptobramidae	1
Animalia	Bony Fishes	Leptoscopidae	1
Animalia	Bony Fishes	Lethrinidae	37
Animalia	Bony Fishes	Lobotidae	4
Animalia	Bony Fishes	Lophichthyidae	1
Animalia	Bony Fishes	Lophiidae	6
Animalia	Bony Fishes	Lutjanidae	82
Animalia	Bony Fishes	Luvaridae	1
Animalia	Bony Fishes	Macrorhamphosidae	1
Animalia	Bony Fishes	Malacanthidae	16
Animalia	Bony Fishes	Megalopidae	2
Animalia	Bony Fishes	Menidae	1
Animalia	Bony Fishes	Merlucciidae	3
Animalia	Bony Fishes	Microcanthidae	1
Animalia	Bony Fishes	Microdesmidae	23
Animalia	Bony Fishes	Molidae	4
Animalia	Bony Fishes	Monacanthidae	64
Animalia	Bony Fishes	Monocentridae	2
Animalia	Bony Fishes	Monodactylidae	5
Animalia	Bony Fishes	Moridae	17
Animalia	Bony Fishes	Moringuidae	7
Animalia	Bony Fishes	Mugilidae	53
Animalia	Bony Fishes	Mullidae	55
Animalia	Bony Fishes	Muraenesocidae	6
Animalia	Bony Fishes	Muraenidae	140
Animalia	Bony Fishes	Myrocongridae	1
Animalia	Bony Fishes	Nematistiidae	1
Animalia	Bony Fishes	Nemipteridae	65
Animalia	Bony Fishes	Neosebastidae	6
Animalia	Bony Fishes	Nettastomatidae	3
Animalia	Bony Fishes	Nomeidae	12
Animalia	Bony Fishes	Ogcocephalidae	10
Animalia	Bony Fishes	Ophichthidae	137
Animalia	Bony Fishes	Ophidiidae	25
Animalia	Bony Fishes	Opisthognathidae	67
Animalia	Bony Fishes	Oplegnathidae	1
Animalia	Bony Fishes	Ostraciidae	14
Animalia	Bony Fishes	Parabembridae	1
Animalia	Bony Fishes	Paralichthyidae	59
Animalia	Bony Fishes	Pegasidae	5

Animalia	Bony Fishes	Pempheridae	21
Animalia	Bony Fishes	Pentacerotidae	7
Animalia	Bony Fishes	Percophidae	9
Animalia	Bony Fishes	Peristediidae	5
Animalia	Bony Fishes	Phallostethidae	3
Animalia	Bony Fishes	Pholidichthyidae	2
Animalia	Bony Fishes	Pinguipedidae	47
Animalia	Bony Fishes	Platycephalidae	68
Animalia	Bony Fishes	Plesiopidae	40
Animalia	Bony Fishes	Pleuronectidae	27
Animalia	Bony Fishes	Plotosidae	13
Animalia	Bony Fishes	Poeciliidae	5
Animalia	Bony Fishes	Polynemidae	29
Animalia	Bony Fishes	Polyprionidae	1
Animalia	Bony Fishes	Pomacanthidae	80
Animalia	Bony Fishes	Pomacentridae	327
Animalia	Bony Fishes	Pomatomidae	1
Animalia	Bony Fishes	Priacanthidae	16
Animalia	Bony Fishes	Pristigasteridae	15
Animalia	Bony Fishes	Psettodidae	1
Animalia	Bony Fishes	Pseudochromidae	141
Animalia	Bony Fishes	Pseudomugilidae	3
Animalia	Bony Fishes	Ptereleotridae	40
Animalia	Bony Fishes	Rachycentridae	1
Animalia	Bony Fishes	Samaridae	1
Animalia	Bony Fishes	Scatophagidae	4
Animalia	Bony Fishes	Schindleriidae	3
Animalia	Bony Fishes	Sciaenidae	184
Animalia	Bony Fishes	Scombridae	38
Animalia	Bony Fishes	Scombrolabracidae	1
Animalia	Bony Fishes	Scorpaenidae	167
Animalia	Bony Fishes	Scorpididae	1
Animalia	Bony Fishes	Sebastidae	1
Animalia	Bony Fishes	Serranidae	352
Animalia	Bony Fishes	Setarchidae	2
Animalia	Bony Fishes	Siganidae	28
Animalia	Bony Fishes	Sillaginidae	29
Animalia	Bony Fishes	Soleidae	99
Animalia	Bony Fishes	Solenostomidae	5
Animalia	Bony Fishes	Sparidae	70
Animalia	Bony Fishes	Sphyraenidae	18
Animalia	Bony Fishes	Stromateidae	9
Animalia	Bony Fishes	Symphysanodontidae	5
Animalia	Bony Fishes	Synanceiidae	26
Animalia	Bony Fishes	Syngnathidae	203
Animalia	Bony Fishes	Synodontidae	46
Animalia	Bony Fishes	Telmatherinidae	1
Animalia	Bony Fishes	Terapontidae	14
Animalia	Bony Fishes	Tetrabrachiidae	1

Animalia	Bony Fishes	Tetragonuridae	3
Animalia	Bony Fishes	Tetraodontidae	45
Animalia	Bony Fishes	Tetrarogidae	15
Animalia	Bony Fishes	Toxotidae	2
Animalia	Bony Fishes	Trachichthyidae	5
Animalia	Bony Fishes	Triacanthidae	7
Animalia	Bony Fishes	Trichiuridae	7
Animalia	Bony Fishes	Trichonotidae	8
Animalia	Bony Fishes	Triglidae	57
Animalia	Bony Fishes	Tripterygiidae	96
Animalia	Bony Fishes	Uranoscopidae	30
Animalia	Bony Fishes	Urolophidae	33
Animalia	Bony Fishes	Veliferidae	2
Animalia	Bony Fishes	Xenisthmidae	13
Animalia	Bony Fishes	Xiphiidae	1
Animalia	Bony Fishes	Zanclidae	1
Animalia	Bony Fishes	Zeidae	4